Standalone Presence Detectors
Exceptional lighting control solutions
CP Electronics offer building-wide control.

Our wide range of presence detectors are designed to reduce the amount of time lighting or HVAC equipment is left on unnecessarily – for example if an area is unoccupied or if there is sufficient natural light.

Controlling lighting with a presence detector can save up to 60% of lighting energy usage dependent on occupancy behaviour and the amount of natural light available. Selected PIR and microwave presence detectors can also be used to control heating and ventilation.

In our range you are sure to find a presence detector that will suit any space.
### PIR Presence Detectors

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### Order Codes

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<td>26</td>
</tr>
</tbody>
</table>
Infrared Handsets

Our range of infrared (IR) handsets have been designed to allow simple configuration, programming and maximum user convenience. There’s a handset to suit every user, whether it’s the commissioning engineer configuring hundreds of detectors, a contractor setting up two or three, or a user who simply wishes to override a setting or switch between pre-programmed scenes.

UNLCDHS – Professional commissioning LCD programming handset
- The UNLCDHS is used for the operation, configuration and programming of CP products that have the ability to be programmed via IR. These include the PRM, DD, AD, Vitesse Plus, RAPID, D-Mate and An-10 ranges.
- Infrared range up to 20m.

UHS5 – Commissioning handset
- The UHS5 is a compact infrared handset used for the basic programming of IR enabled CP products
- Infrared range up to 7m.

UHS7 – User handset
- User handset for simple scene setting, on & off, raise & lower
- Infrared range up to 7m.
EBDSPIR | Compact, flush mounted detectors

This compact ceiling mounted PIR presence detector provides automatic control of lighting, heating and ventilation loads.

- Low profile design
- Self contained unit
- Pluggable
- Programme time delay and lux settings via infrared handset (excluding Basic variant).
- Available in a wide range of RAL colours
- 5 year warranty.

Available control methods
- B – Basic switching
- PRM – Switching
- DD – DALI/DSI dimming
- AD – Analogue dimming
- KNX – See page 22

Special order variants
- LT30 – Low temperature
- LV – Low voltage
- VFC – Voltage free contact
- 2CH – 2 channel

Additional variants available – please see our website.

Detection pattern

Dimensions (mm)

Visit www.cpelectronics.co.uk for more information.
EBDSM | Compact, surface mounted detectors

This series of surface mounted PIR presence/absence detectors is perfect for simple attachment when flush mounting is not possible.

- Self contained unit
- Easy to install via back plate
- Programme time delay and lux settings via infrared handset
- IP40 (no gasket); IP54 when fitted with gasket
- 5 year warranty.

Available control methods

- PRM – Switching
- DD – DALI/DSI dimming
- AD – Analogue dimming

Detection pattern

Dimensions (mm)

Please see pages 26-29 for order codes
Our series of compact flush mounted PIR presence/absence detectors with high performance faceted lens is suitable for use in open spaces or where a larger detection range is required.

- Mid range lens with concentric lens facets for improved detection
- Ideal for open spaces
- Programme time delay and lux settings via infrared handset
- IP40 rated
- Available in a wide range of RAL colours
- 5 year warranty.

### Available control methods

- PRM – Switching
- DD – DALI/DSI dimming
- AD – Analogue dimming

### Special order variants

- LV – Low voltage

Additional variants available to special order – please see our website.

### Dimensions (mm)

- Diameter: 76 mm
- Height: 65 mm
- Depth: 12 mm

### Detection pattern

- High sensitivity
- Low sensitivity

Visit www.cpelectronics.co.uk for more information.
This small, unobtrusive, but highly capable PIR presence/absence detector is supplied pre-wired and with a connector that snap-fits into the power supply unit (PSU) for ease of installation.

- Small and unobtrusive design
- High sensitivity head for increased detection range
- Programme time delay and lux settings via infrared handset
- Supplied pre-wired with an RJ11 plug for connection into the power supply
- Supplied with a flush mounting ring for easy fitting into the ceiling.
- Available with standard or slim line PSU
- 5 year warranty.

**Available control methods**

- PRM – Switching
- DD – DALI/DSI dimming
- AD – Analogue dimming

**Special order variants**

- LV – Low voltage

**Dimensions (mm)**

**Detection pattern**
EBMPIR-MB | Miniature, retrofit, luminaire mounted detectors

The EBMPIR-MB series of batten mount PIR presence detectors have been designed specifically for mounting on to a batten style luminaire.

- Batten mount retrofit solution
- Integrated power supply
- Suitable for a wide range of luminaires
- Pre wired with 1m cable
- Programme time delay and lux settings via infrared handset
- IP65 rated for wet and damp environments
- For mounting at heights up to 7m
- 5 year warranty.

**Available control methods**

- PRM – Switching
- DD – DALI/DSI dimming
- AD – Analogue dimming

**Special order variants**

- LT30 – Low temperature
- LV – Low voltage (110V)

**Detection pattern**

**Dimensions (mm)**

- M20 x 1.5

Visit www.cpelectronics.co.uk for more information.
The EBDRC series of PIR presence/absence detectors contains an adjustable head, and is fitted with a curtain lens for long range detection. Our directional PIR is suitable for mounting in aisleway and corridor applications where a long narrow detection pattern is required.

- Adjustable head
- Curtain lens for longer detection range
- Programme time delay and lux settings via infrared handset
- IP40 rated
- Ideal for corridor applications
- 5 year warranty.

**Available control methods**
- PRM – Switching
- DD – DALI/DSI dimming
- AD – Analogue dimming

**Special order variants**
Additional variants available to special order – please see our website.

**Detection pattern**

```
<table>
<thead>
<tr>
<th></th>
<th>high sensitivity</th>
<th>low</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
```

Sensitivity set to maximum
Detector head position set to 90°

**Range**

- Walk towards: 10m
- Walk across: 24m

See page 23 for Walk towards and Walk across explained.

**Dimensions (mm)**

- 90°
- 85
- 92
The EBDHS PIR presence/absence detector is developed for lighting control in areas with demanding spaces and increased mounting heights.

- Ground breaking detection range
- For mounting at heights up to 20m depending on operating parameters
- Unique lens technology – high sensitivity
- Ideal for high level/high bay applications
- Programme time delay and lux settings via infrared handset
- Supplied with adjustable masking shields to tailor detection zones
- 5 year warranty.

**Available control methods**
- PRM – Switching
- DD – DALI/DSI dimming
- AD – Analogue dimming
- KNX – See page 22

**Special order variants**
- LT30 – Low temperature
- LV – Low voltage

**Dimensions (mm)**

<table>
<thead>
<tr>
<th>Detection pattern</th>
<th>high sensitivity</th>
<th>low</th>
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<tbody>
<tr>
<td>Dimensions (mm)</td>
<td>88</td>
<td>49</td>
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</table>
EBDHS-MB | High bay/high level, luminaire mounted detectors

The EBDHS-MB luminaire mounted PIR presence detector series provides exceptionally sensitive and long range detection. Ideal for high bay lighting control in areas with demanding spaces and increased mounting heights.

- Ground breaking detection range
- For mounting at heights up to 20m depending on operating parameters
- Unique lens technology – high sensitivity
- Ideal for high level/high bay applications
- Programme time delay and lux settings via infrared handset
- Easy to retrofit to commercial luminaires and basic battens
- 5 year warranty.

Available control methods
- PRM – Switching
- DD – DALI/DSI dimming
- AD – Analogue dimming

Special order variants
- LT30 – Low temperature

Detection pattern

Dimensions (mm)

Please see pages 26-29 for order codes
GESM-AC | Surface mounted controller for air conditioning

This AC unit simply ‘learns’ an AC unit’s infrared code, then controls its operation, based on occupancy. As it is surface mounted and battery powered, installation is simplified and disruption is reduced.

- Compatible with most infrared controlled AC units
- Battery operated
- Presence detection - auto on, auto off
- Adjust time delay settings via push buttons
- Lockable settings
- Sleep mode extends battery life
- 5 year warranty.

Detection pattern

Dimensions (mm)

Visit www.cpelectronics.co.uk for more information.
Microwave Presence Detectors

**MWS3A | Adjustable head, long range, flush mounted detectors**

Unlike fixed head microwave detectors, the MWS3A series of presence/absence detectors offers a unique adjustable head to suit the required detection pattern.

- Unique adjustable head design to achieve the required detection pattern
- Locking mechanism to prevent tampering
- Can be flush or surface mounted
- Programme time delay and lux settings via infrared handset
- IP40 rated
- 5 year warranty.

**Available control methods**
- PRM – Switching
- DD – DALI/DSI dimming
- AD – Analogue dimming
- KNX – See page 22

**Special order variants**
- LV – Low voltage
- VFC – Voltage free contact
- VFC NC – Voltage free contact normally closed
- 2CH – 2 channel
- 2CH-NC – 2 channel normally closed

**Detection pattern**

- High sensitivity
- Low sensitivity
- Detection head position set to 0°
- Detection head position set to 80°
- Detection head position set to 40°

**Dimensions (mm)**

- 0 – 90°
- 85
- 92
MWS5 | Compact, flush/surface mounted detectors

The MWS5 series of compact microwave presence/absence detectors has been specifically designed to be mounted within a luminaire. They are sensitive to movement and are ideal for large spaces that have an awkward shape.

- Can be flush or surface mounted
- Remote power supply allows head to be fitted in confined spaces
- Suitable for wall or ceiling mounted luminaires
- A selection of fixing clips to allow the unit to be mounted in or to the side of a luminaire is available
- Programme time delay and lux settings via infrared handset
- Standard and slimline power supply units also available
- 5 year warranty.

Available control methods

- PRM – Switching
- DD – DALI/DSI dimming
- AD – Analogue dimming

Detection pattern

For power supply unit dimensions, please refer to the product installation guide on our website.
The MWS6 is a low profile microwave presence/absence detector for the automatic control of lighting, heating and ventilation.

- Low profile design
- Self contained unit
- Pluggable
- IP40 rated
- Programme time delay and lux settings via infrared handset
- Available in a wide range of RAL colours
- 5 year warranty.

**Available control methods**

- PRM – Switching
- DD – DALI/DSI dimming
- AD – Analogue dimming
- KNX – See page 22

**Special order variants**

- LV – Low voltage
- VFC – Voltage free contact
- 2CH – 2 channel

Additional variants available to special order – please see our website.

**Dimensions (mm)**
MWS6SM | Compact, surface mounted detectors

The MWS6SM is a surface mounted mid-range microwave presence/absence detector for the automatic control of lighting, heating and ventilation.

- Surface mounted
- IP40 rated
- Programme time delay and lux settings via infrared handset
- Self contained unit
- Easy to install via a back plate
- 5 year warranty.

Available control methods

- PRM – Switching
- DD – DALI/DSI dimming
- AD – Analogue dimming

Detection pattern

Dimensions (mm)

Visit www.cpelectronics.co.uk for more information.
This discrete range of wall or ceiling mounted microwave presence detectors is designed to fit any single gang switch box.

- Presence detection
- Programme time delay and lux settings via infrared handset
- Suitable for heating and ventilation applications
- Compatible with European back boxes
- Fixing screw cap covers – smooth plate finish
- 5 year warranty.

**Available control methods**

- PRM – Switching

**Special order variants**

- LV – Low voltage
- VFC – Voltage free contact

**Dimensions (mm)**

This discrete range of wall or ceiling mounted microwave presence detectors is designed to fit any single gang switch box.

- Presence detection
- Programme time delay and lux settings via infrared handset
- Suitable for heating and ventilation applications
- Compatible with European back boxes
- Fixing screw cap covers – smooth plate finish
- 5 year warranty.
MWS1A-IP | Rugged, surface mounted detectors

This rugged range of wall or ceiling mounted presence microwave detectors are rated IP66 – suitable for use in damp environments.

- Unobtrusive design – vandal resistant
- Programme time delay and lux settings via infrared handset
- Built in lux level sensing – enhanced energy saving
- Low voltage and volt free options – suitable for BMS and other control applications
- 5 year warranty.

Available control methods
- PRM – Switching

Special order variants
- LV – Low voltage
- VFC – Volt free contact

Detection pattern

Dimensions (mm)

Visit www.cpelectronics.co.uk for more information.
Light Level Controls

**ALC | Compact, flush mounted switching and dimming photocells**

The ALC dimming photocell automatically adjusts the light output of luminaires depending on the amount of natural light available, to a maintained illuminance level.

- Flush or surface mounted
- Adjustable preset levels for more control
- Programme time delay and lux settings via infrared handset
- Dimming version available to provide a maintained level of illuminance
- 5 year warranty.

**Available control methods**

- DD – DALI/DSI dimming
- AD – Analogue dimming

**Dimensions (mm)**

- 76
- 4
- 65

Please see pages 26-29 for order codes
Low Temperature Detectors

Following rigorous testing in climatic chambers and on-site, our Minus30 range of lighting controls is specifically designed for the cold storage and refrigeration sector, performing down to aggressive -30º temperatures.

KnX Presence Detectors

CP Electronics brings its extensive functionality to KNX, the worldwide standard for unifying all communication between intelligent devices that light, heat and ventilate homes and buildings.

Key features:
- Presence detector, either PIR or microwave
- Absence detection
- Walk test LED
- Light level sensor
- Two ELV switch inputs
- User-configurable logic functions and timers.

Configuration of devices on the KNX bus takes place via the standard ETS software application, allowing all aspects of the presence detector’s behavior to be configured and controlled.
Presence and absence detection explained

The choice between presence and absence detection for different spaces can make a big difference in user-friendliness and the amount of energy saved.

**Presence Detection:** Detectors will switch on lighting automatically when a person enters the room, and switches off lighting automatically when no movement is detected.

**Absence Recovery:** After an occupancy time out period has elapsed in absence mode, the unit temporarily enters a presence mode for 10 seconds allowing the occupants movement to bring the lights back on.

**Absence Detection:** Upon entering the room the person switches on the light as normal, but on leaving the detector switches off the lighting automatically. Lights can also be switched off manually.

**Switch Detection Time:** This ensures that if a switch is activated and no movement is detected the lights will switch off after 10 seconds, minimising unnecessary lit space.
PIRs and microwave detectors compared

**PIR (Passive Infrared) Detection:** PIR detectors work on detecting the movement of body heat. They are better suited to smaller spaces or where a defined detection pattern is required.

**Microwave Detection:** Microwave Detectors are sensitive to objects that move, with much greater coverage and sensitivity. They can detect through glass, therefore careful consideration on location is needed in certain applications.

Walk towards & walk across explained (PIR Detectors)

**Walking towards** the sensing area of a PIR detector may result in later detection as it is possible to walk towards the PIR sectors without crossing them (which is required for detection).

**Walking across** the detection area of a PIR detector results in a rapid detection because multiple sectors are crossed quickly triggering the detector.
These presence detectors have built-in adjustable lux sensors which will keep the lighting switched off if there is sufficient natural light.

**Key features**
- Switching with lux level sensing (infrared handset adjustment)
- Active photocell
- Time delay function
- Presence detection switching.
- Absence detection switching
- Programmable via Infrared handset
- Adjustable detection sensitivity
- On/off override via optional Infrared handset
- Manual on/off override via switch input.
These presence detectors have built-in adjustable lux sensors which will keep the lighting switched off if there is sufficient natural light.

**Key features (in addition to PRM detectors)**

- Dimming functionality
- Two channel flexibility
- Step-down illuminance
- Maintained illuminance (daylight harvesting)
- Scene setting and recall
- Burn in feature for fluorescent tubes
- Control of DALI, DSI or 1–10V loads depending on product
- Integral relay to reduce parasitic power
- Suitable for all lighting types
- Manual dimming with infrared
- Manual dimming with switch inputs.
## Ceiling Mounted PIR Presence Detectors

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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>EBDSPIR</td>
<td>Basic switching, compact, IP40, flush mounted, PIR, presence detector</td>
</tr>
<tr>
<td>EBDSPIR-VFC</td>
<td>Basic switching, compact, IP40, flush mounted, PIR, presence detector, volt free contact</td>
</tr>
<tr>
<td>EBDSPIR-L3</td>
<td>Basic switching, compact, IP40, flush mounted, PIR, presence detector, c/w 3m lead</td>
</tr>
<tr>
<td>EBDSPIR-IP</td>
<td>Basic switching, compact, IP55, flush mounted, PIR, presence detector</td>
</tr>
<tr>
<td>EBDSPIR-AD</td>
<td>1–10V analogue dimming, compact, IP40, flush mounted, PIR, presence/absence detector,</td>
</tr>
<tr>
<td>EBDSPIR-DD</td>
<td>DALI/DSI digital dimming, compact, IP40, flush mounted, PIR, presence/absence detector,</td>
</tr>
<tr>
<td>EBDSPIR-DD-LV</td>
<td>DALI/DSI digital dimming, compact, IP40, flush mounted, PIR, presence/absence detector, low voltage</td>
</tr>
<tr>
<td>EBDSPIR-PRM</td>
<td>PRM switching, compact, IP40, flush mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>EBDSPIR-PRM-2CH</td>
<td>PRM switching, compact, IP40, flush mounted, PIR, presence/absence detector, 2-channel</td>
</tr>
<tr>
<td>EBDSPIR-PRM-2CH-NC</td>
<td>PRM switching, compact, IP40, flush mounted, PIR, presence/absence detector, normally closed fail-safe contacts, 2-channel</td>
</tr>
<tr>
<td>EBDSPIR-PRM-IP</td>
<td>PRM switching, compact, IP55, flush mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>EBDSPIR-PRM-L3</td>
<td>PRM switching, compact, IP40, flush mounted, PIR, presence/absence detector, c/w 3m lead</td>
</tr>
<tr>
<td>EBDSPIR-PRM-LV</td>
<td>PRM switching, compact, IP40, flush mounted, PIR, presence/absence detector, low voltage</td>
</tr>
<tr>
<td>EBDSPIR-PRM-VFC</td>
<td>PRM switching, compact, IP40, flush mounted, PIR, presence/absence detector, volt free contact</td>
</tr>
<tr>
<td>EBDSM-AD</td>
<td>1–10V analogue dimming, compact, IP54, surface mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>EBDSM-DD</td>
<td>DALI/DSI digital dimming, compact, IP54, surface mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>EBDSM-PRM</td>
<td>PRM switching, compact, IP54, surface mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>EBMHS-AD-SA-C</td>
<td>1–10V analogue dimming, miniature, IP40, flush/surface mounted, PIR, presence/absence detector, c/w pre-wired PSU</td>
</tr>
<tr>
<td>EBMHS-DD-SA-C</td>
<td>DALI/DSI digital dimming, miniature, IP40, flush/surface mounted, PIR, presence/absence detector, c/w pre-wired PSU</td>
</tr>
<tr>
<td>EBMHS-PRM-SA-C</td>
<td>PRM switching, miniature, IP40, flush/surface mounted, PIR, presence/absence detector, c/w pre-wired PSU</td>
</tr>
<tr>
<td>EBMPIR-MB-AD</td>
<td>1–10V analogue dimming, miniature, retrofit, IP65, luminaire mounted, PIR, presence detector</td>
</tr>
<tr>
<td>EBMPIR-MB-DD</td>
<td>DALI/DSI digital dimming, miniature, retrofit, IP65, luminaire mounted, PIR, presence detector</td>
</tr>
<tr>
<td>EBMPIR-MB-PRM</td>
<td>PRM switching, miniature, retrofit, IP65, luminaire mounted, PIR, presence detector</td>
</tr>
<tr>
<td>EBMPIR-MB-PRM-110</td>
<td>PRM switching, miniature, retrofit, IP65, luminaire mounted, PIR, presence detector, 110V</td>
</tr>
<tr>
<td>EBDMR-PRM</td>
<td>PRM switching, compact, mid range, IP40, flush mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>EBDMR-DD</td>
<td>DALI/DSI digital dimming, compact, mid range, IP40, flush mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>EBDMR-AD</td>
<td>1–10V analogue dimming, mid range, IP40, flush mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>EBDR-AD</td>
<td>1–10V analogue dimming, adjustable head, long range, IP40, flush mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>EBDR-AD</td>
<td>DALI/DSI digital dimming, adjustable head, long range, IP40, flush mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>EBDR-PRM</td>
<td>PRM switching, adjustable head, long range, IP40, flush mounted, PIR, presence/absence detector</td>
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## Air Conditioning Controller

<table>
<thead>
<tr>
<th>Order Code</th>
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<tbody>
<tr>
<td>GESM-AC</td>
<td>Surface mount PIR AC controller</td>
</tr>
</tbody>
</table>

Visit [www.cpelectronics.co.uk/knowlege-hub](http://www.cpelectronics.co.uk/knowlege-hub) for further technical information.
### High Bay/High Level PIR Presence Detectors

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EBDHS-AD</td>
<td>1–10v analogue dimming, IP65, high bay/high level, flush mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>EBDHS-DD</td>
<td>DALI/DSI digital dimming, IP65, high bay/high level, flush mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>EBDHS-PRM</td>
<td>PRM switching, IP65, high bay/high level, flush mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>EBDHS-MB-AD</td>
<td>1–10v analogue dimming, retrofit, IP65, high bay/high level, luminaire mounted, PIR, presence detector</td>
</tr>
<tr>
<td>EBDHS-MB-DD</td>
<td>DALI/DSI digital dimming, retrofit, IP65, high bay/high level, luminaire mounted, PIR, presence detector</td>
</tr>
<tr>
<td>EBDHS-MB-PRM</td>
<td>PRM switching, retrofit, IP65, high bay/high level, luminaire mounted, PIR, presence detector</td>
</tr>
</tbody>
</table>

### Ceiling Mounted Microwave Presence Detectors

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MWS1A-C-IP-PRM</td>
<td>PRM switching, rugged, IP66, surface mounted, microwave, presence detector</td>
</tr>
<tr>
<td>MWS1A-C-IP-PRM-LV</td>
<td>PRM switching, rugged, IP66, surface mounted, microwave, presence detector, low voltage</td>
</tr>
<tr>
<td>MWS1A-C-PRM-VFC</td>
<td>PRM switching, low profile, IP40, back box mounted, microwave, presence detector</td>
</tr>
<tr>
<td>MWS1A-C-PRM-LV</td>
<td>PRM switching, low profile, IP40, back box mounted, microwave, presence detector, low voltage</td>
</tr>
<tr>
<td>MWS1A-C-PRM-VFC</td>
<td>PRM switching, adjustable head, long range, IP40, flush mounted, microwave, presence/absence detector</td>
</tr>
<tr>
<td>MWS3A-AD</td>
<td>1–10v analogue dimming, adjustable head, long range, IP40, flush mounted, microwave, presence/absence detector</td>
</tr>
<tr>
<td>MWS3A-AD-LV</td>
<td>1–10v analogue dimming, adjustable head, long range, IP40, flush mounted, microwave, presence/absence detector, low voltage</td>
</tr>
<tr>
<td>MWS3A-DD</td>
<td>DALI/DSI digital dimming, adjustable head, long range, IP40, flush mounted, microwave, presence/absence detector</td>
</tr>
<tr>
<td>MWS3A-DD-LV</td>
<td>DALI/DSI digital dimming, adjustable head, long range, IP40, flush mounted, microwave, presence/absence detector, low voltage</td>
</tr>
<tr>
<td>MWS3A-PRM</td>
<td>PRM switching, adjustable head, long range, IP40, flush mounted, microwave, presence/absence detector</td>
</tr>
<tr>
<td>MWS3A-PRM-L3</td>
<td>PRM switching, adjustable head, long range, IP40, flush mounted, microwave, presence/absence detector, c/w 3m lead</td>
</tr>
<tr>
<td>MWS3A-PRM-LV</td>
<td>PRM switching, adjustable head, long range, IP40, flush mounted, microwave, presence/absence detector, low voltage</td>
</tr>
<tr>
<td>MWS3A-PRM-VFC</td>
<td>PRM switching, adjustable head, long range, IP40, flush mounted, microwave, presence/absence detector, volt free contact</td>
</tr>
<tr>
<td>MWS5-AD-SA-C</td>
<td>1–10v analogue dimming, miniature, IP40, flush mounted, microwave, presence/absence detector, c/w pre wired PSU</td>
</tr>
<tr>
<td>MWS5-DD-SA-C</td>
<td>DALI/DSI digital dimming, miniature, IP40, flush mounted, microwave, presence/absence detector, c/w pre wired PSU</td>
</tr>
<tr>
<td>MWS5-PRM-SA-C</td>
<td>PRM switching, miniature, IP40, flush mounted, microwave, presence/absence detector, c/w pre wired PSU</td>
</tr>
<tr>
<td>MWS6-AD</td>
<td>1–10V analogue dimming, compact, IP40, flush mounted, microwave, presence/absence detector</td>
</tr>
<tr>
<td>MWS6-DD</td>
<td>DALI/DSI digital dimming, compact, IP40, flush mounted, microwave, presence/absence detector</td>
</tr>
<tr>
<td>MWS6-PRM</td>
<td>PRM switching, compact, IP40, flush mounted, microwave, presence/absence detector</td>
</tr>
<tr>
<td>MWS6-PRM-2CH</td>
<td>PRM switching, compact, IP40, flush mounted, microwave, presence/absence detector, 2-channel</td>
</tr>
<tr>
<td>MWS6-PRM-LV</td>
<td>PRM switching, compact, IP40, flush mounted, microwave, presence/absence detector, low voltage</td>
</tr>
<tr>
<td>MWS6-PRM-VFC</td>
<td>PRM switching, compact, IP40, flush mounted, microwave, presence/absence detector, volt free contacts</td>
</tr>
<tr>
<td>MWS6SM-AD</td>
<td>1–10v analogue dimming, IP40, surface mounted, microwave, presence/absence detector</td>
</tr>
<tr>
<td>MWS6SM-DD</td>
<td>DALI/DSI digital dimming, IP40, surface mounted, microwave, presence/absence detector</td>
</tr>
<tr>
<td>MWS6SM-PRM</td>
<td>PRM switching, IP40, surface mounted, microwave, presence/absence detector</td>
</tr>
</tbody>
</table>
### Wall Mounted Microwave Presence Detectors

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MWS1A-PRM</td>
<td>PRM switching, rugged, IP65, high bay/high level, flush mounted, PIR, presence detector</td>
</tr>
<tr>
<td>MWS1A-PRM-LV</td>
<td>PRM switching, rugged, IP65, high bay/high level, luminaire mounted, PIR, presence detector</td>
</tr>
<tr>
<td>MWS1A-PRM-VFC</td>
<td>PRM switching, high bay/high level, luminaire mounted, PIR, presence detector</td>
</tr>
</tbody>
</table>

### Minus30 Low Temperature Detector Range

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EBDHS-AD-LT30</td>
<td>1–10V analogue dimming, low temp, IP65, high bay/high level, flush mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>EBDHS-DD-LT30</td>
<td>DALI/DSI digital dimming, low temp, IP65, high bay/high level, flush mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>EBDHS-PRM-LT30</td>
<td>PRM switching, low temp, IP65, high bay/high level, flush mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>EBDHS-MB-AD-LT30</td>
<td>1–10V analogue dimming, retrofit, low temp, IP65, high bay/high level, luminaire mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>EBDHS-MB-DD-LT30</td>
<td>DALI/DSI digital dimming, retrofit, low temp, IP65, high bay/high level, luminaire mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>EBDHS-MB-PRM-LT30</td>
<td>PRM switching, retrofit, low temp, IP65, high bay/high level, luminaire mounted, PIR, presence detector</td>
</tr>
<tr>
<td>EBDSPIR-AD-IP-LT30</td>
<td>1–10V analogue dimming, compact, low temp, IP55, flush mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>EBDSPIR-DD-IP-LT30</td>
<td>DALI/DSI digital dimming, compact, low temp, IP55, flush mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>EBDSPIR-PRM-IP-LT30</td>
<td>PRM switching, compact, low temp, IP55, flush mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>EBMPIR-MB-AD-LT30</td>
<td>1–10V analogue dimming, miniature, retrofit, low temp, IP65, luminaire mounted, PIR, presence detector</td>
</tr>
<tr>
<td>EBMPIR-MB-DD-LT30</td>
<td>DALI/DSI digital dimming, miniature, retrofit, low temp, IP65, luminaire mounted, PIR, presence detector</td>
</tr>
<tr>
<td>EBMPIR-MB-PRM-LT30</td>
<td>PRM switching, miniature, retrofit, low temp, IP65, luminaire mounted, PIR, presence detector</td>
</tr>
</tbody>
</table>

### KNX Presence Detectors

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EBDHS-KNX</td>
<td>KNX, IP65, high bay/high level, flush mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>EBDSPIR-KNX</td>
<td>KNX, compact, IP40, flush mounted, PIR, presence/absence detector</td>
</tr>
<tr>
<td>MWS3A-KNX</td>
<td>KNX, adjustable head, long range, IP40, flush mounted, microwave, presence/absence detector</td>
</tr>
<tr>
<td>MWS6-KNX</td>
<td>KNX, compact, IP40, flush mounted, microwave, presence/absence detector</td>
</tr>
</tbody>
</table>
## Light Level Controls

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Description</th>
<th>PG</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALC-PRM-VFC</td>
<td>Compact, IP40, flush mounted, photocell switch, PRM switching, volt free contacts</td>
<td></td>
</tr>
<tr>
<td>ALC-DD</td>
<td>Compact, IP40, flush mounted, photocell switch, DALI/DSI digital dimming</td>
<td>20</td>
</tr>
<tr>
<td>ALC-AD</td>
<td>Compact, IP40, flush mounted, photocell switch, 1–10V analogue dimming</td>
<td></td>
</tr>
</tbody>
</table>

## Infrared Handsets

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Description</th>
<th>PG</th>
</tr>
</thead>
<tbody>
<tr>
<td>UHS5</td>
<td>Compact, programming/commissioning handset</td>
<td>4</td>
</tr>
<tr>
<td>UHS7</td>
<td>Compact, user handset</td>
<td>4</td>
</tr>
<tr>
<td>UNLCDHS</td>
<td>Professional, programming/commissioning LCD handset</td>
<td>4</td>
</tr>
</tbody>
</table>

## Accessories

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Description</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DBB</td>
<td>Surface mount back box, white</td>
<td></td>
</tr>
<tr>
<td>MWS3A-DBB</td>
<td>MWS3A Surface mount back box BESA fixing, white</td>
<td></td>
</tr>
<tr>
<td>DBB-EXT</td>
<td>Surface mount back box extender BESA fixing, white</td>
<td></td>
</tr>
<tr>
<td>MWS3A-DBB-EXT</td>
<td>MWS3A Surface mount back box extender BESA fixing, white</td>
<td></td>
</tr>
<tr>
<td>EBDHS-DBB-WBRKT</td>
<td>EBDHS Wall mount bracket, white</td>
<td></td>
</tr>
<tr>
<td>MWS3A-DBB-WBRKT</td>
<td>MWS3A Wall mount bracket, white</td>
<td></td>
</tr>
<tr>
<td>EBD-ENCIP1</td>
<td>IP65 detector enclosure, grey</td>
<td></td>
</tr>
<tr>
<td>EXD-HSC</td>
<td>Extended wiring compartment for use with flush mounted detectors, white</td>
<td></td>
</tr>
<tr>
<td>EBDSPIR-MS</td>
<td>Adhesive masking shields (pack of 10), white</td>
<td></td>
</tr>
<tr>
<td>EBDHS-MS</td>
<td>Masking shields</td>
<td></td>
</tr>
<tr>
<td>MWS3A-VPPC</td>
<td>Wall mount protective cover for use with wall mount bracket, clear</td>
<td></td>
</tr>
</tbody>
</table>

*Compatible with EBDSPIR, EBDHS, ALC, MWS6 and EBDMR presence detectors.
**Also suitable for EBDRC.
5. Returns

5.1 Goods may not be returned unless a written Materials Return Authorization (MRA) is issued by the Company to the Purchaser. The Purchaser must return any returned Goods, including any parts or pieces, to the Company store location (as determined by the Company's distribution center) at the Purchaser's expense and in their original packaging within 30 days of written notice given to the Purchaser. The Company's liability for returned Goods is limited to the reimbursement of all reasonable costs incurred by the Purchaser in returning the Goods, including return shipping and handling, and any applicable tax. Any return shipping and handling costs incurred by the Purchaser shall be reimbursed to the Purchaser by the Company if the Company determines that the Goods were returned in accordance with the terms and conditions of this Agreement.

6. Intellectual Property Rights

6.1 Subject to clause 6.2, the Purchaser may not the reverse-engineer, decompile, decrypt, disassemble, deconstruct, or disjoin the source code or object code of the Goods, any software, or other materials, or create any derivative works therein, or use, copy, transmit, disclose, distribute, reproduce, or otherwise make available the Goods, or any portion thereof, in whole or in part, in any manner, or in any medium, whether in electronic or physical form, except as permitted by law.

7. Warranty

7.1 The Company's written warranty and underlying terms are as follows:

7.1.1 the Goods shall be delivered free from defects in materials and workmanship and for a period of 2 years from the date of delivery.

7.1.2 the Goods shall be delivered free from defects in manufacture, materials and workmanship, and for a period of 1 year from the date of delivery.

7.2 the Purchaser provides notice to the Company reasonably and without undue delay of any defects in the Goods that are discovered by the Purchaser during the warranty period.

7.3 The extent of the Company's liability under this clause is limited to the repair or replacement of defective Goods or parts thereof, at the Company's option, and shall not exceed the cost of the return of Goods to the Company for inspection and testing or repair or replacement of repaired Goods.

8. Intellectural Property

8.1 The Purchaser agrees not to use, develop, exploit, transfer or disclose any Intellectual Property Rights relating to the Goods, without the prior written consent of the Company. Upon termination or expiration of the Agreement, the Purchaser shall return to the Company all copies of any Intellectual Property Rights relating to the Goods.

9. Limitation of Liability

9.1 The Company shall not be liable for any indirect or consequential loss arising under or in connection with the Agreement or the Goods, except as provided in this clause 9.

10. Force Majeure

10.1 In the event of force majeure, neither party shall be liable for any failure or delay in performance unless otherwise stated in writing by the other party.

11. Governing Law and Jurisdiction

11.1 This Agreement is subject to and governed by the laws of the State of [State], and the United Nations Convention on Contracts for the International Sale of Goods shall not apply. This Agreement contains the entire understanding of the parties and supersedes any and all prior proposals, agreements, negotiations or understandings with respect to the subject matter thereof.

12. Assignment

12.1 This Agreement may not be assigned or transferred without the written consent of the Company.

13. Warranties

13.1 No warranties, whether express or implied, are made by the Company regarding the performance or functionality of any Goods, software, or materials, or in any other respect.

14. Safety

14.1 The Purchaser agrees to comply with all applicable safety standards and regulations, including those relating to construction, operation, and maintenance of any Goods, software, or materials, and shall ensure that all personnel involved in the use, operation, or maintenance of any Goods, software, or materials, are trained in the safe use of such Goods, software, or materials.

15. Privacy

15.1 The Company shall not collect, use, or disclose any personal information or data from the Purchaser, except as necessary to perform the obligations under this Agreement.

16. Entire Agreement

16.1 These General Terms and Conditions shall constitute the entire agreement between the parties and supersede any and all prior proposals, negotiations, or agreements, written or oral, with respect to the subject matter thereof.

17. Communications

17.1 Communications shall be deemed to have been received if sent to the Company's registered office, or such party as the Company may designate, in writing or by facsimile, email, or any other similar method of communication at any time during the term of this Agreement.

18. Integration

18.1 These General Terms and Conditions constitute the entire agreement between the parties and supersede any and all prior proposals, negotiations, or agreements, written or oral, with respect to the subject matter thereof.

19. Partial Invalidity

19.1 If any provision herein is held to be illegal, invalid or unenforceable, such provision shall be stricken from these Terms and Conditions and the remainder shall remain valid.

20. Disputes

20.1 Any disputes arising under or related to these Terms and Conditions shall be resolved by arbitration in accordance with the rules of the American Arbitration Association.

21. General

21.1 This Agreement shall be governed by the laws of the State of [State], without giving effect to any conflicts of law provisions.

22. Law

22.1 This Agreement shall be governed by the laws of the State of [State] and all disputes arising under or related to these Terms and Conditions shall be resolved by arbitration in accordance with the rules of the American Arbitration Association.

23. Termination

23.1 The Company may terminate this Agreement at any time upon written notice to the Purchaser, and the Purchaser shall immediately dispose of any Goods in accordance with the Company's instructions.

24. Notice

24.1 All notices required or permitted hereunder shall be addressed to the Company and Purchaser at the addresses set forth herein, or such other addresses as the parties may agree to in writing.

25. Delivery

25.1 Delivery of the Goods shall be made by [Company] at its option by carrier to the Purchaser's address indicated on the invoice. The date of delivery shall be the date of delivery as indicated on the invoice, unless otherwise agreed with the Purchaser.

26. Returns

26.1 All Goods returned must be returned in the original packaging and accompanied by a copy of the invoice. The Company shall inspect the returned Goods and, if accepted, issue a credit note.

27. Partial Payments

27.1 The Company may accept partial payments from the Purchaser, but the Company shall have no obligation to accept partial payments unless specifically agreed to in writing by the Company.

28. Payment

28.1 The Purchaser agrees to pay the price of the Goods as set forth in the invoice, and the Company agrees to deliver the Goods at the agreed upon time and place.

29. Force Majeure

29.1 The Purchaser shall be excused from performance of any of its obligations under this Agreement during any period in which it is prevented or delayed from doing so by such force majeure event.

30. Interpretation

30.1 The terms and conditions herein are to be interpreted so as to give effect to the purpose and intent of this Agreement.